



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of

STEVEN LUO

Serial No. 10/085,279

Filed February 27, 2002

For PREPARATION OF CONJUGATED
DIENE POLYMERS BY USING
AN IRON-BASED CATALYST
SYSTEM

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence was deposited
with the United States Postal Service as first class mail
in an envelope addressed to: Assistant Commissioner for
Patents, Washington, D.C. 20231 on June 7, 2002.

Kimberly A. Bright
Kimberly A. Bright, Secy to Arthur M. Reginald

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TC 1700

INFORMATION DISCLOSURE STATEMENT
37 C.F.R. § 1.97(b)

Sir:

Applicants submit this paper to introduce art that they wish to have the Examiner consider. 37 C.F.R. §§ 1.56 & 1.97.

The art has been listed on the attached modified PTO Forms 1449. This includes thirty-one U.S. patents, three foreign patents, two references, and three abstracts of foreign patents. The Applicants also wish to notify the Examiner of copending applications. These applications bear U.S. Serial Nos. 09/938,788, 09/788,802, 09/897,687, 09/850,519, 09/850,240, 10/053,730, 10/079,205, and 09/788,800. The claims of these copending applications have been enclosed. Copies of these references have been enclosed pursuant 37 C.F.R. § 1.98(a)(2).

No representation is made that a specific search has been made by the Applicants, that the information is material to the claimed subject matter, or that the information is non-cumulative, or that the information represents the only or the best information. The Applicants do not admit that any of the information they have provided is necessarily prior to their invention but rather that it is information known of at this time. Any question that may arise regarding priority of a specific reference shall be resolved during prosecution.

The enclosed documents are being submitted for the express purpose of providing the Patent and Trademark Office with the opportunity to make an evaluation and to arrive at an independent assessment of materiality of each document to the examination of this application. The Examiner is requested to disregard any markings on the documents.

Applicants respectfully request that the information cited be made of record in the subject case.

**IDENTIFICATION OF TIME OF FILING THE INFORMATION
DISCLOSURE STATEMENT**

The Information Disclosure Statement submitted herewith is being filed before the mailing of a first Office Action or within three months of its filing. No certification or fee is due with this filing of the Information Disclosure Statement. 37 C.F.R. 1.97(b).

Respectfully Submitted,



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June 7, 2002

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 8-83) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
P98036US3A(P317)

SERIAL NO.
10/085,279

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT
LUO

FILING DATE
February 27, 2002

GROUP

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U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
	3,419,505	12/68	Marsico	260	2	
	3,457,186	7/69	Marsico	252	429	
	3,457,250	7/69	Gaeth	260	94.3	
	3,498,963	3/70	Ichikawa et al.	260	94.3	
	3,725,373	4/73	Yoo	260	88.7	
	3,778,424	12/73	Suginura et al.	260	94.3	
	3,957,894	5/76	Saeki et al.	260	666	
	4,048,418	9/77	Throckmorton	526	138	
	4,168,357	9/79	Throckmorton et al.	526	139	
	4,168,374	9/79	Throckmorton et al.	526	139	
	4,182,813	1/80	Makino et al.	526	92	
	4,751,275	6/88	Witte et al.	526	139	
	5,239,023	8/93	Hsu et al.	526	141	
	5,356,997	10/94	Massie, II et al.	525	237	
	5,677,405	10/97	Goodall et al.	526	281	
	5,891,963	4/99	Brookhart et al.	525	326.1	
	5,919,875	7/99	Luo et al.	526	139	
	6,117,956	9/00	Luo	526	145	
	6,160,063	12/00	Luo	526	139	
	6,180,734 B1	1/01	Luo	526	139	
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	6,201,080 B1	3/01	Luo et al.	526	139	
	6,211,313 B1	4/01	Luo	526	139	
	6,281,305	8/01	Luo	526	139	
	2001/0007000 A1	7/01	Luo	525	247	

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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
	6,288,183	9/01	Luo	526	153	
	6,277,779	8/01	Luo	502	154	
	6,284,702	9/01	Luo	502	154	
	6,320,004	11/01	Luo	526	126	
	6,331,594	12/01	Luo	525	247	
	2001/0012878	8/01	Luo	526	139	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
00/75201 A1	12/00	WIPO			
01/32724 A1	5/01	WIPO			
0 994 129 A1	4/00	Europe			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	English Abstract of Japanese Patent No. 45011154.
	English Abstract of Japanese Patent No. 48064178.
	English Abstract of Japanese Patent No. 73006939.
	"Syndiotactic 1,2-Polybutadiene with Co-CS2 Catalyst System I. Preparation Properties and Application of Highly Crystalline Syndiotactic 1,2-Polybutadiene, II. Catalyst for Stereospecific Polymerization of Butadiene to Syndiotactic 1,2-Polybutadiene, III. 1H and 13C-NMR Study of Highly Syndiotactic 1,2-Polybutadiene and IV Mechanism of Syndiotactic Polymerization of Butadiene with Cobalt Compounds-Organaluminum-CS2, Journal of Polymer Science: Polymer Chemistry Edition, by H. Ashitaka et al., Vol. 21, pp. 1853-1860 and 1951-1995, (1983)
	Comprehensive Polymer Science, by Porri and Giarrusso, Pergamon Press, Oxford, Vol. 4, pp. 53, (1989)

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